Preconceptual Planning	Conceptual	8	eliminary Design	Final Desig	gn Consti	ruction	Operations
*		*		*	*		*
CD-0		CD-1	CD)-2	CD-3		CD-4
Approve Mission				erformance A	Approve Start of Construction	Approve S	Start of Operations or Project Completion

Request PD funding Punds for preliminary design Sant monthly PARS Quarterly Project performance reporting Review of Mission Need Statement (ASN) projects with Project Review (IPR) for Major System (MS) projects and Project Review (IPR) for Major System (MS) projects (2-5750K) Perform Pre-conceptual Planning Perform Pre-conceptual Planning Perform Pre-conceptual Planning Perform Pre-conceptual Planning Perform Review (IPR) for Major System (MS) projects a Mission Report (PSVR) Perform Sist (PSVR) Perform Pre-conceptual Planning Perform Pre-conceptual Plan		Range			
Proceed with Conceptual Design Approach of Per Plands for preliminary design Approach of Program Request PED funding Page 19 Funding Approach of Program Request PED funding Page 20 Funding Approach of Program Request PED funding Page 20 Funding Approach of Program Analysis Agreement Review of Conceptual Design On Perform Institute Information Project Review of Conceptual Design On Perform Project Review of Conceptual Design On Perform Project Review of Conceptual Planning		Actions Authoriz	ed by Critical Decision	(CD) Approval	
Request Profit India Program P	CD-0	CD-1	CD-2	CD-3	CD-4
Review of Mission Need Statement (MSN) by Office of Forgram Analysis & Frogram Analysis & Frogram Manalysis & Frogram Mission Need Independent Project Review (IPR) for Mijor System & Alternative Analysis & Alternative Analys	Conceptual Design Request PED funding Start monthly PARS & Quarterly Project Performance	Funds for preliminary design • Approval of long-lead	Baseline Continue design Request construction	expenditure of funds for	Allow start of operations or project completion
Review of Mission Need Statement (MSN) by Office of Program Analysis & Evaluation (CF-20) for \$100M or greater. Perform Mission Need Independent Project Review (IR) For \$100M or greater. Perform Mission Need Independent Project Review (IR) For \$100M or greater. Perform Mission Need Independent Project Review (IR) For \$100M or greater. Perform Mission Need Independent Project Review (IR) For \$100M or greater. Perform Mission Need Independent Project Review of Conceptual Design Need Independent Project Review of Independent Non-Msp projects Set Stands 100M Assess Requirements Analysis Alternative Analysis, Risk Analysis Alternative A	Toporting	Non-Nuclear Fac	cilitiesPrerequisite Ac	ctivities for CDs	
Perform Technical IPR	Need Statement (MSN) by Office of Program Analysis & Evaluation (CF-20) for \$100M or greater. Perform Mission Need Independent Project Review (IPR) for Major System (MS) projects (>=\$750K) Perform Preconceptual Planning Evaluate Information Technology (IT) projects with Departmental Enterprise Architecture	Review of Acquisition Strategy (AS) (OECM review for MS project) Review of Conceptual Design Requirements Analysis Alternative Analysis Value Management determination Assess Requirements Analysis, Risk Analysis, Alternative Analysis, Appoint FPD Establish & charter Integrated Project Team Ensure compliance with One- for-One Replacement requirement for building square footage Ensure Integrated Safety Management Implementation Ensure consideration for High Performance Sustainable Building Assess if QA Program is	Perform Baseline External Independent Review (EIR) & validation by OECM for \$100M or greater. Perform Independent Cost Review or Independent Cost Estimates for MS project as part of EIR Program IPR for \$20M to less than \$100M Review of Preliminary Design Establish compliant project EVMS for \$20M or more, & OECM certifiable EVMS for project TPC with \$50M or more Conduct Value Engineering (as applicable) Incorporate High Performance Sustainable Building provisions into design Determine if QA Program	Perform Executability EIR by OECM for MS projects Perform IPR for Non-MS projects	Perform Readiness Assessment or Operational Readiness Review Revise environmental management system. Post CD-4 Closeout Perform Final Administrative & Financial Closeout Conduct Post Implementation
Perform Technical IPR Prepare Conceptual Safety Design Report (SDR) Prepare a Preliminary Safety Validation Report (PSVR) Prerequisite Documents Prerequisite Documents Acquisition Strategy	Hazard Cates	ory 1, 2, and 3 Nuclear Fa		requisite Activitie	es/Documents for CDs
 MNS Acquisition Strategy Conceptual Design Report Risk Management Plan Risk Assessment Preliminary PEP, Preliminary Hazard Analysis (HA), Preliminary Security Vulnerability Assessment Report (SVAR) Initial Cyber Security Plan for IT projects. QA Program Documentation AS-Acquisition Strategy MNS MNS Acquisition Strategy Performance Baseline Preliminary Design Updated Risk Assessment Updated PEP Updated HA (Approved at Field Level) Updated Preliminary SvAR NEPA Documentation Updated Preliminary Security Plan for IT projects Updated Initial Cyber Security Plan for IT projects QA Program Documentation AS-Acquisition Strategy MNS-Mission Need Statement EIR-External Independent Review ASA-Safety Analysis Report Final Design Updated CD-2 documents Updated QA Program Transition-to-Operations Finalized QA Plan, SVA HA Report, Construction Project Safety & Health Plan Updated Cyber Security Plan for IT projects Security Plan for IT projects Final Project Closeout Final Project Closeout R Lessons Learned Report 		Perform Technical IPR Prepare Conceptual Safety Design Report (SDR) Prepare a Preliminary Safety	Prepare Preliminary SDR Prepare a PSVR based on	Prepare Preliminary Documented Safety Analysis Report (SAR)	Prepare Documented SAR with Technical Safety Requirements
 Tailoring Strategy Conceptual Design Report Risk Management Plan Risk Assessment Preliminary PEP, Preliminary Hazard Analysis (HA), Preliminary Security Vulnerability Assessment Report (SVAR) Initial Cyber Security Plan for IT projects. OA Program Documentation Preliminary Design Updated Risk Assessment Updated PEP Updated HA (Approved at Field Level) Updated Preliminary SVAR NEPA Documentation AS-Acquisition Strategy EIR-External Independent Review ASA-Safety Analysis Report SDR-Safety Design Report Final Design Updated CD-2 documents Updated QA Program Project Transition/ Close Plan Transition-to-Operations Plan Updated Pre Program Updated Preliminary SVAR NEPA Documentation ASA-Safety Analysis Report SDR-Safety Design Report EIR-External Independent Review		P	rerequisite Documents	1	
EVMS-Earned Value Mgmt, System — UECM-Office of Engr. & Const. Mgmt — SER-Safety Evaluation Report — : : : • Required Operational	Tailoring Strategy AS-Acquisition Strategy EIR-External Independent F	Conceptual Design Report Risk Management Plan Risk Assessment Preliminary PEP, Preliminary Hazard Analysis (HA), Preliminary Security Vulnerability Assessment Report (SVAR) Initial Cyber Security Plan for IT projects. OA Program Documentation MNS-Mission Need Statemen Review MS-Major Systems	Preliminary Design Updated Risk Assessment Updated PEP Updated HA (Approved at Field Level) Updated Preliminary SVAR NEPA Documentation Updated Initial Cyber Security Plan for IT projects SAR-Safety Analysis R SDR-Safety Design Re	Updated CD-2 documents Updated QA Program An Approved Construction Project Safety & Health Plan Updated Cyber Security Plan for IT projects Leport port	Commissioning Plan Project Transition/ Closeout Plan Transition-to-Operations Plan Finalized QA Plan, SVAR, HA Report, Construction Project Safety & Health Plan, Finalized Cyber Security Plan for IT projects & completed Certification & Accreditation, as required Post CD-4 Closeout Final Project Closeout Report Lessons Learned Report
HA-Hazard Analysis QA-Quality Assurance SVAR-Security Vulnerability Assess. Report IPR-Internal Project Review PSVR- Prelim. Safety Validation Report TPC-Total Project Cost Budget Related Documents	HA-Hazard Analysis	QA-Quality Assurance PSVR- Prelim. Safety Validat	SVAR-Security Vulner tion Report TPC-Total Project Cos	ability Assess. Report t	

- After CD-0 approval, Exhibit 300 for Projects =>\$20M: Annual submission initiated during the federal budget cycle when funds are requested.
- Project Data Sheets: Annual submission initiated during the federal budget cycle when TEC funds are requested.